

**ABSTRACT**

**MONITORING PARTICLES IN A FLUID FLOW**

5 Apparatus for use in monitoring particles in a fluid flow comprises: a duct (1) for  
receiving the fluid flow; light generating means (6) adjacent the duct for transmitting  
light into the fluid flow via a first at least partially light-transmissive part (4) of the duct;  
light-responsive detection means (7) adjacent a second at least partially light-  
transmissive part (5) of the duct for receiving light from the light generating means  
10 which has passed through the fluid flow; processing means (8) for location remotely  
from said duct; and means (9) for coupling the processing means with the detection  
means, the processing means being adapted for processing signals therefrom to provide  
data relating to particles in the fluid flow.

15

2006270.8.2565007